

DAFTAR PUSTAKA

- Absor, M. A. U. (2015). *Density-functional theory based calculations of spin-orbit interaction in ZnO*. Disertasi doktor, Kanazawa University.
- Anisimov, V. I., Zaanen, J., and Andersen, O. K. (1991). Band theory and Mott insulators: Hubbard U instead of stoner I. *Phys. Rev. B Condens. Matter*, 44(3):943–954.
- Atkins, Peter dan de Paula, J. (2009). *Atkins' physical chemistry*. Oxford University Press, London, England, 9 edition.
- Baseden, Kyle A dan Tye, J. W. (2014). Introduction to density functional theory: Calculations by hand on the helium atom. *J. Chem. Educ.*, 91(12):2116–2123.
- Friedlan, A dan Dignam, M. M. (2021). Valley polarization in biased bilayer graphene using circularly polarized light. *Phys. Rev. B.*, 103(7).
- Gamble, J. K., Harvey-Collard, P., Jacobson, N. T., Baczewski, A. D., Nielsen, E., Maurer, L., Montano, I., Rudolph, M., Carroll, M. S., Yang, C. H., Rossi, A., Dzurak, A. S., and Muller, R. P. (2016). Valley splitting of single-electron Si MoS quantum dots. *Applied Physics Letters*, 109(25).
- Görtl, F dan Sautet, P. (2013). Density functional theory as a key approach in surface chemistry and heterogeneous catalysis. In *Comprehensive Inorganic Chemistry II*, pages 405–420. Elsevier.
- He, Xuemin dan Shi, H. (2011). Synthesis and anomalous magnetic properties of hexagonal CoO nanoparticles. *Mater. Res. Bull.*, 46(10):1692–1697.
- Heyd, J., Scuseria, G. E., and Ernzerhof, M. (2003). Hybrid functionals based on a screened coulomb potential. *J. Chem. Phys.*, 118(18):8207–8215.
- Hohenberg, P dan Kohn, W. (1964). Inhomogeneous electron gas. *Phys. Rev.*, 136(3B):B864–B871.

- Hsu, W.-T., Lu, L.-S., Wang, D., Huang, J.-K., Li, M.-Y., Chang, T.-R., Chou, Y.-C., Juang, Z.-Y., Jeng, H.-T., Li, L.-J., and Chang, W.-H. (2017). Evidence of indirect gap in monolayer WSe₂. *Nat. Commun.*, 8(1):929.
- Hung, N. T., Nugraha, A. R. T., and Saito, R. (2023). *Quantum ESPRESSO Course for Solid State Physics*. Jenny Stanford Publishing, United Square, Singapore.
- Jang, H.-S., Lim, J.-Y., Kang, S.-G., Hyun, S.-H., Sandhu, S., Son, S.-K., Lee, J.-H., and Whang, D. (2019). Methane-mediated vapor transport growth of monolayer WSe₂ crystals. *Nanomaterials (Basel)*, 9(11):1642.
- Khan, I., Marfoua, B., and Hong, J. (2021). Electric field induced giant valley polarization in two dimensional ferromagnetic WSe₂/CrSnSe₃ heterostructure. *Npj 2D Mater. Appl.*, 5(1).
- Koch, Wolfram dan Holthausen, M. C. (2001). *A chemist's guide to density functional theory*. Wiley-VCH Verlag, Weinheim, Germany, 2 edition.
- Kohn, W dan Sham, L. J. (1965). Self-consistent equations including exchange and correlation effects. *Phys. Rev.*, 140(4A):A1133–A1138.
- Liboff, R. L. (2002). *Introductory Quantum Mechanics*. Addison-Wesley, San Francisco, 4 edition.
- Lide, D. R. (1984). *Handbook of chemistry and physics*. CRC Press, Boca Raton, FL, 65 edition.
- Liu, H., Lazzaroni, P., and Di Valentin, C. (2018). Nature of excitons in bidimensional WSe₂ by hybrid density functional theory calculations. *Nanomaterials (Basel)*, 8(7):481.
- Lukmantoro, Arif dan Absor, M. A. U. (2023). First principle calculations of magnetic proximity effect induced valley splitting on heterointerface WS₂/CoO(111). *Solid State Phenom.*, 345:147–152.
- Luo, C., Huang, Z., Qiao, H., Qi, X., and Peng, X. (2024). Valleytronics in two-dimensional magnetic materials. *JPhys Mater.*, 7(2):022006.

- Mao, X., Liu, Z., Li, J., Li, C., Teng, S., Liu, Y., and Xu, X. (2020). Induced valley and spin splitting in monolayer MoS₂ by interfacial magnetic proximity of half-Heusler LiBeN substrate. *J. Magn. Magn. Mater.*, 512(167061):167061.
- Norden, T., Zhao, C., Zhang, P., Sabirianov, R., Petrou, A., and Zeng, H. (2019). Giant valley splitting in monolayer WS₂ by magnetic proximity effect. *Nat. Commun.*, 10(1):4163.
- Ozaki, T. dan Kino, H. (2004). Numerical atomic basis orbitals from H to Kr. *Phys. Rev. B Condens. Matter Mater. Phys.*, 69(19).
- Pavarini, E., Koch, E., Anders, F., and Jarell, M. (2012). *Correlated Electrons: From Models to Materials*. Forschungszentrum Jülich, Düren.
- Perdew, J. P., Burke, K., and Ernzerhof, M. (1996). Generalized gradient approximation made simple. *Phys. Rev. Lett.*, 77(18):3865–3868.
- Poirier, J.-P. (2012). *Introduction to the physics of the earth's interior*. Cambridge University Press, Cambridge, England, 2 edition.
- Pollini, I., Mosser, A., and Parlebas, J. C. (2001). Electronic, spectroscopic and elastic properties of early transition metal compounds. *Phys. Rep.*, 355(1):1–72.
- Soni, Ashish dan Pal, S. K. (2022). Valley degree of freedom in two-dimensional van der Waals materials. *J. Phys. D Appl. Phys.*, 55(30):303003.
- Voß, D., Krüger, P., Mazur, A., and Pollmann, J. (1999). Atomic and electronic structure of WSe₂ from ab initio theory: Bulk crystal and thin film systems. *Phys. Rev. B Condens. Matter*, 60(20):14311–14317.
- Wang, J., Rhodes, D., Feng, S., Nguyen, M. A. T., Watanabe, K., Taniguchi, T., Mallouk, T. E., Terrones, M., Balicas, L., and Zhu, J. (2015). Gate-modulated conductance of few-layer WSe₂ field-effect transistors in the subgap regime: Schottky barrier transistor and subgap impurity states. *Appl. Phys. Lett.*, 106(15):152104.
- Wang, Y., Ge, H. X., Chen, Y. P., Meng, X. Y., Ghanbaja, J., Horwat, D., and Pierson, J. F. (2018). Wurtzite CoO: a direct band gap oxide suitable for a photovoltaic absorber. *Chem. Commun. (Camb.)*, 54(99):13949–13952.

- White, R M dan Friedman, D. J. (1985). Theory of the magnetic proximity effect. *J. Magn. Magn. Mater.*, 49(1-2):117–123.
- Wu, Z., Zhou, B. T., Cai, X., Cheung, P., Liu, G.-B., Huang, M., Lin, J., Han, T., An, L., Wang, Y., Xu, S., Long, G., Cheng, C., Law, K. T., Zhang, F., and Wang, N. (2019). Intrinsic valley hall transport in atomically thin MoS₂. *Nat. Commun.*, 10(1):611.
- Xiao, D., Liu, G.-B., Feng, W., Xu, X., and Yao, W. (2012). Coupled spin and valley physics in monolayers of MoS₂ and other group-VI dichalcogenides. *Phys. Rev. Lett.*, 108(19):196802.
- Yeh, P.-C., Jin, W., Zaki, N., Zhang, D., Liou, J. T., Sadowski, J. T., Al-Mahboob, A., Dadap, J. I., Herman, I. P., Sutter, P., and Osgood, R. M. (2015). Layer-dependent electronic structure of an atomically heavy two-dimensional dichalcogenide. *Phys. Rev. B Condens. Matter Mater. Phys.*, 91(4).
- Zhang, A., Gong, Z., Zhu, Z., Pan, A., and Chen, M. (2020). Effects of the substrate-surface reconstruction and orientation on the spin valley polarization in MoTe₂/EuO. *Phys. Rev. B*, 102:155413.